

Abdomen a little longer, but no wider than the thorax; 1st and base of 2nd segment striate, rest of abdomen smooth; 2nd segment occupying two-thirds of the surface. Forewings reaching a little beyond apex of abdomen; moderately broad; hyaline; marginal cilia not long; discal cilia fine and dense; submarginal vein attaining the costa about middle of wing; marginal vein short; stigmal vein rather long and oblique; postmarginal vein twice as long as the stigmal; venation golden yellow. Antennae 11-jointed, scape long and slender; pedicel one-half longer than wide; 1st funicle joint as wide as pedicel, but a little shorter; 2—4 gradually shortening, the 4th as wide as long; club 5-jointed, not compact; joints 1—4 scarcely wider than long, 3rd the widest.

Hab.: Suva, Fiji. Described from one ♀ caught with the preceding species.

Type: Queensland Museum, Brisbane, Hy 2057, a ♀ on a slide.

Note. The proofs have been read by me.

Strand.

Four new Proctotrypoid Egg-parasites of Sugar Cane Insects in Java.

By

Alan P. Dodd, Nelson, via Cairns, Queensland.

Among a collection of egg-parasites received from Mr. P. van der Goot, Entomologist at the Javan Sugar Experiment Station, Pasoeroean, Java, were several species of *Scelionidae*, of which four are apparently new to science, and are described herewith.

The magnification used was $\frac{2}{3}$ inch objective, 1 inch optic, Bausch and Lomb.

Family **SCELIONIDAE**.

Subfamily **Scelioninae**.

Genus **Hadronotus** Foerster.

Hadronotus javensis sp. nov.

♀ Length, 1.50 mm.

Coal black; legs (except coxae, and apical joint of tarsi), and antennal scape bright golden yellow; pedicel and succeeding four antennal joints yellow somewhat dusky.

Head a little wider than the thorax; eyes almost bare. Thorax stout, nearly as wide as long; mesonotum without furrows; scutellum large, semicircular, its caudal margin rimmed; metathorax short, unarmed. Abdomen a little wider but no longer than the thorax; as wide as long; 1st segment slightly longer than the 2nd. Head and thorax reticulately rugulose; 1st abdominal segment striate,

rest of abdomen longitudinally rugulose. Body with whitish pubescence. Forewings reaching beyond apex of abdomen; broad; hyaline; marginal cilia short; discal cilia not fine, dense; submarginal vein not curving downwards before attaining the costa about middle of wing; marginal vein very short; stigmal vein moderately long and oblique; postmarginal vein twice as long as the stigmal; venation lemon yellow, rather indistinct. Antennae 12-jointed; scape long and slender, as long as next four joints combined; pedicel twice as long as wide; 1st funicle joint a little shorter and narrower than pedicel, twice as long as wide; 2nd slightly longer than wide, 3rd wider than long; club 7-jointed, joints 1—6 distinctly wider than long; 2nd the longest and widest.

Hab.: Java (Pasoeroean). Described from eight females in a tube labelled "From moth eggs, on leaves of sugar cane, Pasoeroean, Java, 13. VII. 13". The tube contained several eggs from which the parasites had emerged; the eggs appear similar to Pentatomid eggs.

Types: In the Queensland Museum, Brisbane, Hy 2058, 2 ♀s on a tag, head, antennae and forewings on a slide.

This species somewhat resembles the North Queensland species, *nigriclavatus* Dodd, and *nigricoxa* Dodd.

Subfamily **Telenominae**.

Genus **Telenomus** Haliday.

1. *Telenomus javensis* sp. nov.

♀ Length, 0.90 mm.

Coal black; femora dark brown; tibiae brownish yellow; tarsi bright yellow.

Head slightly wider than the thorax; eyes slightly pubescent. Thorax scarcely longer than wide, with fine, polygonal sculpture, and fine pubescence. Abdomen no wider, and scarcely longer than the thorax, its apex truncate; 1st segment short, 2nd occupying most of surface; 1st and base of 2nd segment striate, rest smooth. Forewings reaching well beyond apex of abdomen; not very broad; hyaline; marginal cilia rather long; discal cilia fine and dense; submarginal vein attaining costa about middle of wing; marginal vein one-half as long as the stigmal, which is not long; postmarginal vein fully twice as long as the stigmal; venation yellowish. Antennae 11-jointed; scape equal to next five joints combined; pedicel scarcely twice as long as wide; 1st funicle joint much shorter but scarcely narrower than pedicel, slightly longer than wide, 2—4 subequal, wider than long; club 5-jointed, 1st joint small, 1—4 distinctly wider than long, 3rd slightly the widest.

Hab.: Java (Modjorangoeng). Described from numerous females labelled "From eggs of unknown moth on sugar cane, Modjorangoeng, Java, 16. IX. 13".

Types: In the Queensland Museum, Brisbane, Hy 2060, a ♀ on a tag, a ♀ on a slide.

2. *Telenomus vanderhooti* sp. nov.

♀ Length, 0.85 mm.

Like the preceding species but the thorax and abdomen are more slender, both distinctly longer than wide, the latter is not so truncate at apex; all the legs and antennal scape bright golden yellow; pedicel and funicle joints dusky yellow; funicle joints 2—4 not subequal but gradually shortening, the 1st one-half longer than wide; forewings not so broad.

Hab.: Java (Modjorangoeng). Described from one female labelled as in the preceding.

Type: In the Queensland Museum, Brisbane, Hy 2061, a ♀ on a slide, with the slide type of *javensis*.

The species is named in honor of its discoverer.

3. *Telenomus spodopterae* sp. nov.

♀ Length, 0.60 mm.

Very similar to *javensis* but the abdomen is not so truncate; the funicle joints are much narrower than the pedicel, and very small; the tibiae are darker; the forewings are narrower, very narrow for the genus, the longest marginal cilia equal to fully one-half the greatest wing width.

Hab.: Java (Krebet). Described from four females labelled "From eggs of a moth, *Spodoptera* sp.?, on leaves of sugar beet, Krebet, Java, 23. VII. 13".

Types: In the Queensland Museum, Brisbane, Hy 2062, four ♀s on a slide.

Genus *Phanurus* Thomson.*Phanurus benificiens* Zehntner.

In a tube labelled "From eggs of *Grapholita schistaceana*, a moth-borer of sugar cane, Pasoeroean, Java, 15. IX. 13", and containing many Trichogrammatids, was a female of this species.

Note. The proofs have been read by me.

Strand.

Rezensionen.

Nur Schriften, die zu dem Zweck an die Redaktion des Archivs für Naturgeschichte eingesandt werden, können hier besprochen werden. Außerdem werden sie in den Jahresberichten behandelt werden. Zusendung von

Rezensionsschriften erbeten an den Herausgeber des Archivs:

Embrik Strand, Berlin N. 4, Chausseest. 105.)

Ziegler, Dr. J. H.: Die Umwälzung in den Grundanschauungen der Naturwissenschaft. 155 S., gr. 8°. Bern 1914. Fr. Semminger vorm. J. Heubergers Verlag. Preis Fr. 3.—.

Enthält „acht kritische Betrachtungen“: I. Der wahre Grundbegriff der Erkenntnis und seine einfachste Formel. II. Die universelle Weltformel. III. Atomistik. IV. Zahl und Form der